

CLAIMS:

1. An image processing apparatus, comprising
 - an input for coupling to a transport channel (11) for receiving video information comprising a base video stream and an enhancement video stream that contains information for optionally improving a quality of an output stream derived from the base video stream;
 - 5 - an adder (126) arranged to form the output stream by adding image information values derived for a location in an image from the base video stream and the enhancement video stream;
 - 10 - a multiplier (124) functionally coupled between the input and the adder (126) so as to adjust a relative weight with which the information value in the base video stream and the enhancement video stream are added to each other;
 - 15 - a weight selection unit (123) arranged to select the relative weight as a function of position in the image and/or time in the video information, adaptive to local content of the video information.
2. An image processing apparatus according to Claim 1, wherein the enhancement video stream provides information used for increasing a spatial and/or temporal resolution provided by the base video stream.
- 20 3. An image processing apparatus according to Claim 2, wherein the weight selection unit (123) is arranged to select the weight from a range that contains different weights with which the information value from the enhancement stream can be attenuated and overemphasized relative to the base video stream respectively.
- 25 4. An image processing apparatus according to Claim 1, wherein the weight selection unit (123) is arranged to select the relative weight at a position in the video information responsive to a detected amount of temporal and/or spatial change of the video information in a region that includes the position, so that the weight of the information value from the enhancement stream relative to the information value derived from the base video

stream is increased when said amount is relatively high and decreased when said amount is relatively low.

5. An image processing apparatus according to Claim 4, wherein the weight selection unit (123) is additionally responsive to a luminance in said region, so that the weight of the information value from the enhancement stream relative to the information value of the base stream is increased when said the luminance is relatively high and decreased when the luminance is relatively low.
6. An image processing apparatus according to Claim 4, comprising a spatial change sensor (20) responsive to spatial change in the region, the spatial change sensor (20) being coupled to the weight selection unit (123) to control the relative weight responsive to spatial changes.
7. An image processing apparatus according to Claim 4, wherein the base video stream is encoded using motion vectors, the weight selection unit (123) being arranged to select the weight dependent on a size of a motion vector value associated with the region according to the encoding.
8. An image processing apparatus, comprising
- a video encoder (10) arranged to encode video information into a base video stream and an enhancement video stream from video information for supplying a part of the video information that is lost in the base video stream;
 - a temporal change detector (30) coupled to detect an amount of temporal change between successive images in the video information in a common region in the images, the region containing a location;
 - a factor selection unit (105) for selecting a time and location dependent factor for said location responsive to the amount of temporal change, so that the factor increases with increasing change;
 - a multiplier (104) functionally coupled to apply the location and time dependent factor to the image information in the enhancement video stream prior to encoding.
9. A method of processing a video stream, the method comprising

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- receiving a base video stream and an enhancement video stream that contains information for optionally improving a quality of an output stream derived from the base video stream;
- 5 - selecting a relative weight as a function of position in an image in the video stream and/or time in the video stream, adaptive to image information in the video stream.
- adding image information values derived for a location in an image from the base video stream and the enhancement video stream;
- adjusting a relative weight with which the information value in the base video stream and the enhancement video stream are added to each other, adaptive to a content of
10 the video stream around said location as a function of location and/or time.